

Influence of Various Elements on Mechanical
Properties of Cast Iron Having Eutectic
Graphite Structure Produced by Treating
Molten Cast Iron With Slag Containing TiO_2
(S-H Cast Iron (II) (Influence of Mn and
Cu), by H. Sawamura.
JAPANESE, per, Tetsu-to-Hagane, Vol 39,
No 9, 1953, pp. 980-983.
CRL/T. 1803

Sci -
Jul 67

333,884

Injection of Oxygen-Enriched Air into Blast Furnace
Hearth, by Kuro Kanamori.

JAPANESE, per, Tetsu To Hagane, Vol XL, No 7,
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Brutcher Tr
No 3618

30,248

Scientific - Chemistry

Jan 56 CTS/DEX
\$2.25

Effect of Arsenic, Copper, Tin and Molybdenum on
Impact Properties of Dead Soft Steel, by H.
Sawamura, et al. UNCL

JAPANESE, per, Tetsu-to-Hagane, Jan 1955,
pp 23-31.

British Iron and
Steel Ind 1239

Sci - Min/Mat
Aug 59

93,429

Desulfurization of Liquid Pig Iron With Powdered
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JAPANESE, ^{1st} Tetsu to Hagane, Vol XLI, No 3,
1955, pp 193-195.

Henry Bratcher Tr 3850

\$2.75

Sci - Minerals/Metals
Chemistry
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Section on the Hot Working Strength of Steels. 43.
High Temperature Deformation Strength of Various
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JAPANESE, per, Tetsumi to Kagaku, Jun 1955, pp 593-601.

ENR 1430

(18)

Sci -

Mar 60

109419

Effect of Carbon, Arsenic, Copper and Tin on
Transition Temperature of Steel, by H. Sawamita.
UNCL.

JAPANESE, per, Tetsu to Hagane, Aug 1955, pp 861-
869.

NLL M. 4726
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Steel Ind 1240
(L9 10s.0d.)

Sci - Man/Het
Sep 59

OTS 62-10510

96, 021

Some effects of charge size on Blast Furnace operation,
by I. Kodama, T. Osuga.
JAPANESE, per, Tetsu-to-Hagane, No 41, 1955, pp 7-945
CRL/T. 2467

Sci -
Sep 67

340,222

Some Effects of Charge Size on Blast
Furnace Operation, by T. Osuga, I. Kodama.
Japanese, per, Tetsu to Hagane, Vol 41,
Sept. 1955, pp 945-947.
BISI 4655

Sci-M&M
Jul 66

306,479

Industrial-Scale Trials on the Injection of
Argon for Flushing Hydrogen Out of Arcxxx
and O. H. Steel Baths, by H. Imai, et al,

JAPANESE, per, Tetsu to Hagane, Vol XLI, No 9,
1955, pp 1033,1034.

Brutcher No 3827

\$2.25

41, 431

Sci - Min/Metals
Dec 56 CTS

Toughness of Steel and Behavior of Hydrogen in
Steel (11) Numerical Consideration of Hydrogen
Diffusion from Steel and Its Toughness, by
S. Murayama.

JAPANESE, per, Tetsu-to-Hagane, Vol 41, 1955,
pp 1044-1047.

*CFSTI TT 70-57185

Sci-Phys

June 70

Effect of Nonmetallic Inclusions and Mo on the
Mechanical Strength of 13% Cr Steel, by K. Oao,
R. Sasaki. URCL

JAPANESE, per, Tetsu-to-Hagane, Dec 1955,
pp 1258-1264.

NLL 11.4720
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Sci - Min/Met
Aug 59

93, 409

Some characteristics of Blast Furnace slags containing
Chromium, by Y. Matsushita.
JAPANESE, per, Tetsu-to Hagane, No 42- 1956, pp 4-173
CRL/T 1804

Sci -
Sep 67

340,215

Influence of various elements of hot-tearing tendency of
cast steel, effects on sn, as, sh, bi, o, h, and n, by
S. Oki.

JAPANESE, per, Tetsu-to-Hagane, No 42, 1956, pp 9-247
CRL/T 1688

Sci -
Sep 67

340,280

Determination of Oxygen in Pig and Cast Irons, by
H. Goto, et al.

JAPANESE, per, Tetsu to Hagane, Vol. XLII, No 1, 1956,
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Brutcher Tr b112
\$3.25

Sci - Min/met
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Size in Iron and Steel - II, by K. Kuniti, et al.
JAPANESE, per, Tetsu to Hagane, Vol 42, No 3,
1956, pp 195-197.
BISI 4906

Sci-Materials
Oct 66

310,502

Effect of Hot Working on Grain Growth
Characteristics of Austenite, by Y. Masuko.
JAPANESE, JRR, Tetsu to Hagane, Vol 42, No 3,
1956, pp 242-244.
BISI 4907

Sci-Materials
Oct 66

310,503

On the Grain Size and the Impact Value of
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JAPANESE, per, Tetsu to Hagane, Vol 42,
No 3, 1956, pp 244-246.
BISI 4908

Sci-Materials
Oct 66

310,504

Electron Microscope Study of the Structure of Work
Rolls for Cold Rolling, III, by K. Gokan, T. Ando.

JAPANESE, per, Tetsu to Hagane, Mar 1936,
pp 306, 307.

BISI 1936

Sci - Electron, Engr

135,563

Jan 61

Abe, A. and Miwa, H.
ON THE EXTENSOMETER FOR THE SKIN PASS
MILL. [1957] [4p. (3 figs. omitted).
Order from SLA \$1.10

61-16260

Trans. of ~~Tokyo~~ Tokyo Hagane (Japan) 1956, v. 42, Mar.,
p. 342-343.

DESCRIPTORS: *Extensometers, Design, Metal plates,
Measurement.

An extensometer is described that is based on the rela-
tion between thickness and velocity, the reduction ratio
is obtained by finding the velocities.

Co-op Tr Sch Tr 614

(Machinery--Manufacturing, TT, v. 6, no. 4)

61-16260

I. Abe, A.
II. Miwa, H.

177652

Office of Technical Services

Siliconizing of Iron, by M. Someno.
JAPANESE, per, Tetsu-to-Hagane, Vol 42, 1956,
pp 360-361.
*CFSTI TT 70-57187

Sci-Chem
June 70

Studies on the Characteristics of Chromizing-V, by
S. Ueda.
JAPANESE, per, Tetsu-to-Hagane, Vol 42, 1956,
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*CFSTI TT 70-57188

Sci-Phys
June 70

On the Desulfurization of Molten Steel by CaO ,
and CaO , by Shimamura, et al. 1956
K.

JAPANESE, per, Fetsu-to-Hogare, Sep 1956,
pp 864-865.

British Iron and
Steel Ind 982
(11)

Sci. - Chem
Feb 59

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Study on the Hot-Workability of Steels. V.
Hot Working Properties of Austenitic Stainless
Steels, by T. Morishima.

JAPANESE, per, Tetsu to Hagane, Sep 1956, pp 928-
930.

BISI 1665

C 51/R3

~~SECRET~~

Sci - Min/Met

Oct 60

The Modern 4-Strand High-Speed Continuous Wire
Rod Mill at Hikari Works, by Dazai. UNCLASSIFIED

JAPANESE, per, Tetsu to Hagane, Sep 1956, pp 935-
936.

Co-op Tr Scheme

Tr 793 *also 762*
(11.15.0)

FE - Japan
Econ
Apr 58

62, 672

Hot Rolling With Idler Roll Stands in a
Continuous Wire Mill, by T. Harada, et al. UNCL

JAPANESE, per, Tetsu-to-Hagane, Sep 1956,
pp 936-938.

British Iron and
Steel Ind 762
(13.0.0)

Sci - Engr
May 59

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1. Productivity; the Use of Models;
Aerodynamic Constitution of Open-Hearth Furnace,
by E. A. Masimoto. UNCL

JAPANESE, per, Tokyo-to-Magazine, Oct 1956,
pp 950-955.

British Iron and Steel Ind 1120
(157 17a.02.)

Sci - Engr
May 59

NLL M.4558

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Features of Flow in Typical Designs. UNCL

JAPANESE, per, Tatsu-to-Hagane, Dec 1956,
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BISI 1121
(16)

NLL 1014733

Sum
Sci - Eng
Feb 59
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Rapid Determination of Oxygen in Liquid Steel
by the Nephelometric Method, by A. Kawano,
I. Fujimoto.
JAPANESE, per, Tetsu to Hagane, Vol 42, No 10,
1956, pp 1463-1464.
HD 6913

Sci/Materials
Jan 67

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Effect of small amounts of Elements on Formations of
Spheroidal graphite in cast iron, by I. Aoki, T. Totteri.
JAPANESE, per, Tetsu-to Hagane, No 43, 1957, pp 11-209
CRL/T 1691

Sci -
Sep 67

340,289

Open-Hearth Furnace Operation by Cold Coke-Oven
Gas Under High Pressure, by I. Murata, et al.
UNCL

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JAPANESE, per, Shinko Tetsu-to-Engane, Jan 1957,
pp 17-21.

British Iron and Steel Ind 1112

Sci - Engr
Apr 39

84, 491

Practical Investigation on Work Rolls for
Cold Rolling, by Yasuhisa Kuwabara, Yasuhiko
Miwa, Keiji Ariga. UNCLASSIFIED

JAPANESE, per, Tetsu to Hagane, Vol XLIII,
Jan 1957, pp 24-28.

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Sci - Engr
Aug 58

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Elimination of Hydrogen and Nitrogen From Steel
Boths by Flushing With Argon, by K. Inai, et al.

JAPANESE, per. Ketsu to Kagaku, Vol XLIII, No 3,
1957, pp 45, 46.

ED 4789

Sci - Engr

Apr 60

114,272

Aerodynamic Design on the Open-Hearth Furnace.
III. Functions of Lower Furnace, by H. A.
Hasimoto. URCL

JAPANESE, per, Tetsu-to-Hagane, Feb 1957,
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ALL INFORMATION
British Iron and
Steel Ind 1122

Sci - Ingr
Aug 59

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Elimination of Copper From Molten Pig Iron, by
K. Ueno, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLIII, No 3,
1957, pp 265-6.

Brutcher Tr 4101
\$1.80

Sci - Min/4st

8
Apr 58

61,457

Toughness of Steel and Behavior of Hydrogen in Steel,
(iii) Hydrogen Diffusion from Steel in Hot Rolling
and in Stress Loading at Room Temperature, by
S. Murayama.

JAPANESE, per, Tetsu-to-Hagane, Vol 43, 1957,
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*CFSTI TT 70-57184

Sci-Phys
June 70

Trials With Ferrocoke in the Blast Furnace, by
Y. Shiraishi, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLIII, No 3,
1957, pp 351-352.

Brutcher Tr 4102
\$2.60

Sci - Engr
Jul 58

66,360

Aerodynamic Design of the Open-Hearth Furnace,
IV. Function of the Furnace Chamber, by H. A.
Rasimoto. UNCL

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pp 628-632.

ALL INFORMATION
British Iron and
Steel Ind 1123

Sci - Engr (L7 10s.03.)
Sep 59

96, 016

Some Problems in the Manufacture of Seamless
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Mill Process, by S. Nakajima. USCL

JAPANESE, per, Tetsu to Hagane, No 6, 1957,
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BISI 1666

(16. 5a.(B.))

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Sci - Hngr
Jun 60

Function of the Air Uptake. UNCL

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NLL M.4555
British Iron and
Steel Ind 1124

Sci - Engr
May 59

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Function of the Furnace Head. UECL

JAPANESE, per, Tetsu-to-Engaku, Jul 1957,
pp 699-703.

NLL M.4563
British Iron and
Steel Ind 1125

801 - Engr
May 59

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Some Facts Affecting the Hotch-Inject Preparation
Carbon Steels, by H. Gondo, et al. UNCL

JAPANESE, per, Tetsu-to-Hagane, Sep 1957, pp 894-897.

British Iron and
Steel Ind 1257
NLL M.4577

Sci. - Min/Mat
May 59

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Influence of Pouring (Ladle) Refractoriness on the
Formation of Macro and Micro Inclusions in High-
Carbon Chromium Steel, Part I, by Y. Kotani, et al.

JAPANESE, per, Tetsumi to Hagane, Vol XLIII, No 9,
1957, pp 899-901.

Brutcher Tr 4155
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Sci - Min/met
Jul 58

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Reactions Between Molten Slags Containing
Tio₂ and Pig Iron, by R. Sato.
JAPANESE, per Tetsu-to-Hagane, Vol 43, 1957,
pp 928-930.
CRL/T. 1690

Sci -
Jul 67

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Reduction of Lamp Ores by Gas From the Blast-
Furnace Bosh Zone, by Y. Takahashi, et al.

JAPANESE, per, ~~Taken to Foreign~~ Vol. 2000, No. 9,
1957, pp 1015-1017.

Butcher Tr 4196
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Sci - Min/mt
Jul 58

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On the Reduction of Hematite by Solid Carbon, by
K. Shimazaka, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLIII,
No 9, 1957. p 1017.

Brutcher Tr 4064
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Sci - Chem
Mar 58

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Effects of Structure on the Changes of Internal
Friction of Some Steels Caused by an Absorbed
Hydrogen, by M. Mizuta.

JAPANESE, per, Tetsu-to-Hange, Vol 43, 1957,
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*CFSTI TT 70-57189

Sci-Chem

June 70

Ultrasonic Inspection of Steel Slabs, Part I, by
Y. Sasaki, et al.

JAPANESE, per, ~~Tetsu to Hagane~~, Vol XLIII, No 9,
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Brutcher Tr 4160

~~\$1.60~~ \$2.25

Sci - Min/met
Jul 58

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Relation Between Permeability of Rolling-Stock
Axles to Ultrasound and Properties of Steel, by
H. Nakamura, R. Inoue.

JAPANESE, per, Tetsu to Hagane, Vol XLIII, No 9,
1957, pp 1074-1076.

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Sci - Min/Mat
Jul 58

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Part VII, Function of the Burner Jet. UNCL

JAPANESE, per, Toku-to-Hapane, Oct 1957,
pp 1094-1098.

NLL 19.4556
British Iron and Steel Ind 1126

Sci - Engr (18 15s.0d)
May 59

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Aerodynamic Design of the Open-Hearth
Furnace, by H. A. Hashimoto. UNCL
H.A. HASHIMOTO
JAPANESE, per, Tetsu-to-Hagane, 1957,
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British Iron and
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et al.

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DISI 2399

Sci - Phys

176, 459

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Effect of Additions of Titanium Metal, Ferro-Titanium, and a Copper-Titanium Alloy on the Structure of Gray Iron. Report VIII, by H. Sawamura, M. Tada.

JAPANESE, per, Tetsu to Hagane, No 11, 1957, pp 1234-1242.

HB 5027

Sci - Min/Met

Jan 61

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Analysis of Segregalims in Heat Resistant Steels
16-15-6, by E. Asano. UNCL

JAPANESE to FRENCH, per, Tetsu to Hagane, Vol XLIII,
No 12, 1957, pp 1318-1325.

Centre de Documentation Siderurgique
IT 2302
6 Rue de Lota
Paris 16^{me}

Study of Solidification and Segregation in large Steel Ingots. 1. Direct Measurement of Solidification Rate by Bar Test, by H. Morikawa, et al JAPANESE, per, Tetsu-to-Hagane, Vol 44, No 1, 1958, pp 9-14.
CEL/D.654

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aug 69

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Gas Flow in the Top-Blown Oxygen Converter, by
H.A. Hashimoto.

JAPANESE, per, Tetsu to Hagane, Vol XLIV, No 3,
1958, pp 222, 223.

HB 4768

Sci - Chem

Jan 60

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Hydrodynamics of Molten Steel When Cooling,
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JAPANESE, per, Tetsu to Hagane, Mar 1958,
pp 260-262.

DISI 1477

(IA 15a.03.)

Sci - MU/Ket
Mar 60

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Studies on the Rolling of Seamless Steel Tubes.
III. Effect of Rolling Conditions on the Various
Loads of a Plug Mill, by K. Sato.

JAPANESE, per, Tetsu to Hagane, Mar 1958,
pp 386-388.

BISI 1667

Sci - Engr

Sep 60

127,204

Etude de l'Acier Refractaire a 12% de Chrome. IX.
Caracteristiques de Fluage a Long Terme et Durete
de Revenu, by T. Akutagawa, T. Fujita. UNCL

JAPANESE to FRENCH, per, Tetsu-tc-Hagane, No 3, 1958,
pp 419-421.

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IT 2343
6 rue de ~~Lka~~ Lots
Paris 16me

Die Aktivitaetsbeiwerte von Elementen in Fluessigem Eisen, (besonders im Falle von Mehr als Zwei Elementen), by E. ~~Hir~~ Horikawa.

JAPANESE to GERMAN, per, Tetsu to Hagane, Vol XLIV, 1958, pp 533-541.

VDeh
Verein Deutscher Eisenhuettenleute
Dusseldorf
Breite Strasse 27
Germany

Apr 60

Study on the Hot-Ductility of Steels. I. Study
on the Hot Torsion Test, by T. Morishima.

JAPANESE, per, Tetsu to Hagane, May 1958,
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BISI 1631

Sci - Min/Met

NL N 6368

Sep 60

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Ductility of the Austenitic Stainless Steels, by
T. Morishima.

JAPANESE, per, Tetsu to Hagane, Jun 1958,
pp 660-668.

BISI 1632

Sci - Min/Met

Sep 60

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Investigation of Pickling Rate by Potential-Time
Curves, by I. Yano.

JAPANESE to GERMAN, per, Tetsu to Hagane, Vol XLIV,
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VDeh

Verein Deutsch Eisenhuettenleute
Duesseldorf
Breite Strasse 27, Germany

Dec 59

GAS FLOW IN A SLANTED TOP-BLOWN LD FURNACE, BY
H. HASHIMOTO, Y. NAGANO. 1.

JAPANESE, PER, TETSU TO HAGANE, VOL XLIV, NO 9,
1958, PP 1055, 1056.

HB 5621

SCI - ENGR
OCT 62

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MODEL EXPERIMENT ON THE DESIGN AND OPERATION OF
A BASI OXYGEN (LD) FURNACE, BY K. SEGAWA, ET AL.

JAPANESE, PER, TETSU TO HAGANE, VOL XLIV, NO 9,
1958, PP 1056-1058.

HB 5269

SCI - NENGR

OUT 62

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Study of the Dephosphorizing Reaction in a Five-Ton Experimental Oxygen Furnace, by S. Mashara, S. Morita, Y. Hirose.

JAPANESE, per, Tetsu to Hagane, Vol XLIV, No 9
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HB 5270

Sci-Min/Net
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Study of Nitrogen Content of Steel in a
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by S. Maehara, S. Morita, et al.

JAPANESE, per, Tatsu to Hagane, Vol XLIV,
No 9, 1958, pp 1060-1062.

HB 5372

Sci-Materials & Metallurgy
July 63

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Study of the Oxygen and Sulfur Contents of
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JAPANESE, per, Tetsu to Hagan, Vol 44, No 9,
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HB 5307

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Sci/M&M
May 65

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Effects Exerted by Vanadium and Other Elements
on Si-Mn High Tensile Structural Steels, by
E. Asano, A. Sueki.

JAPANESE, per, Tetsu to Hagane, Vol XLIV, 1958,
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UK AEA (Risley)
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The Effect of Bismuth on the High Temperature
Properties of Austenitic Stainless Steel, by
S. Inoue, et al. UNCL

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ADSI 1563

(14. 5s. 03.)

Sci - Min/Mat
Jun 60

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Etude de l'Acier Refractaire a 12% de Chrome. X.
Influence des Conditions de Traitement Thermique
sur les Caracteristiques de Fluage, by T. Akutagawa,
T. Fujita. UNCL

JAPANESE to FRENCH, per, Tetsu-to-Hagane, No 9, 1958,
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Centre de Documentation Siderurgique
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6 rue de Lota
Paris 16^{me}

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Caracteristiques de Fluage a Long Terme et Durete
de Revenu, by T. Akutagawa, T. Fujita. UNCL

JAPANESE to FRENCH, per, Tetsu-to-Hagane, No 9, 1958,
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IT 2345
6 rue de Lota
Paris 16me

Waermaebertragung in Einem Rundhauben-Gluehofen,
by K. Tanaka.

JAPANESE to GERMAN, per, Tetsu to Hagane, Vol XLIV,
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VDeh
Verein Deutscher Eisenhuettenleute
Dusseldorf
Breite Strasse 27
Germany

Apr 60

Study of consumption of Carbon and heat in Blast
Furnace, Consumption of carbon and heat in Blast
Furnace, Application of results to blast furnace
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JAPANESE, per, Tetsu-to-Hagane, Vol 45, 1959, pp 7-19⁴
CRL/T. 2461

Sci -
Sep 67

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Effects of Ti and Al, ETC., On Mechanical
Properties of Nimonic 80A, by Hasegawa Taro,
9 pp.
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Sci - M/M
Jun 64

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Heat Resisting Alloys, by Hasejawa Taro, 10 pp.
JAPANESE, per, Tetsu To Hagline, Vol XXXV,
Jan 1959, pp 40-45.
JPRS 25004

Sci - M/M
Jun 64

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Study of the Reduction of Magnetite ['Iron Sand']
in Double Fluidized Beds, by M. Tanaka, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLV, No 3,
1959, pp 177, 178.

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Sci - Min/Met

Jan 60

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Reduction Reactions in the Blast Furnace, by K.
Wakabayashi.

JAPANESE, per, Tetsu to Hagane, Vol XLV, No 3,
1959, pp 183-185.

HB 4723

Suz. - Engi

Feb 60

108,510

Trial Operation of a Blast Furnace on Fluxed
Sinter, by M. Inoue, et al.

JAPANESE, per, Tetsu to Hagane, Vol XLV,
No 3, 1959, pp 189-192.

HB 4770

Sci. - Engr

Jan 60

106,210

Study of Consumption of Carbon and Heat
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II - Application of Results to Blast Furnace
Operation, by J. Sawamura.
JAPANESE, per, Tetsu to Hagane, Vol 45,
1959, I pp 194-196, II pp 196-197.
BISI 4652

Sci-M&M
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302,306

FLOW IN A SPHERICAL BASIC OXYGEN LD FURNACE,
BY H. HASHIMOTO, Y. NAGANO.

JAPANESE, PER, ITTSU TO HAGANE, VOL XLV, NO 3,
1959, PP 248, 249.

HB 5620

SCI - ENGR
OCT 62

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Effect of Carbon, Silicon, and Manganese Upon
the Absorption of Nitrogen by Liquid Iron, by
Y. Nakagawa, S. Maekawa.

JAPANESE, per, Tetsu to Hagane, Vol. XLV,
No 3, 1959, pp ~~255-257~~.

HB 4817

Sci - Min/Met

118,422

Jun 60

S-488/64

Effect of Ti and Al on Mechanical Properties of
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JAPANESE, per, Tetsu to Hagane, Vol XLV, 1959,
pp 38-43. ⁴

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Japan
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May 64

Effect of Heat Treatment on Mechanical Properties
of M252, by Taro Hasegawa, 14 pp.
JAPANESE, per, Tetsu to Hagane, Vol XLV, 1959,
pp 32-37.
JPRS 25078

Sci - M/M
Jun 64

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Jun 64

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